## CAT DV43 RTCH





2204 Commerce Street P.O. Box 575 Fairview, OK 73737 USA 580.227.3908 (PHONE) 580.227.3928 (FAX) www.powermaxeq.com

# **About Powermax Equipment**

### PURPOSE

The Purpose of Powermax is to repair, rebuild, and refurbish mining, construction, and other types of equipment.

#### MISSION

The Mission of Powermax is to be an area leader in repairing, rebuilding, and refurbishing equipment and to be known for selling a quality product at a fair price. We will try to use the best repair materials available and employ a highly skilled workforce to produce a superior product that will stand up to hard use.

#### **DEPENDABLE SERVICE**

Service is very important to Powermax. We believe if we make a promise then we must deliver. That's important because we believe that having the products you need, when you need them, may mean the difference between making money and losing money.

If a certain type of equipment is needed and we do not have it, then we will make every effort possible to find that particular item in good condition and at a fair price.

## **CORE VALUES**

- We take great pride in our company's name and want to sell a quality product.
- We strive to be a positive example by our honesty and fairness.
- We work together as a team to create a clean and safe work environment.
- We hold ourselves accountable to our workplace, our families, and our community.
- We treat others the way we would want to be treated: with respect and integrity.





#### **GENERAL INFORMATION**

The CAT DV43 RTCH is a Rough Terrain Container Handler which was built from a CAT 988B wheel loader. It is a refurbished 4 wheel drive unit designed for use on rough terrain or to travel through water 60" deep.

The original primary use of the CAT DV43 was to lift and transport 8' wide containers varying in length from 20', 35' or 40'. This is done through the use of a hydraulically operated top handler made specifically for each length. The containers can weigh as much as 25 tons and can be stacked two high.

# In addition to handling containers, with optional special attachments, the RTCH may be used for a number of other applications as follows:

- Unit is capable of having valves modified to add up to 3 hydraulic functions to operate special equipment attachments.
- Remove and transport engines for rebuilding, saving the cost of another means of handling.
- Transport large equipment tires for repair, saving the need for a special tire handling unit.
- Use for unloading heavy items from containers on to low boy trailers without the use of an extra forklift.
- Hauling rolls of rubber conveyor material for assembly or replacement; therefore, replacing the need of other handling equipment.
- Hauling track group material for replacement on dozers, excavators, and other equipment.
- Transport 25 ton steel coils to work stations eliminating the need of an extra crane.
- Assist in the clean-up of derailed rail cars while waiting for specialized rail equipment.



















## CAT DV43 RTCH ROUGH TERRAIN CONTAINER HANDLER

(Assembled from CAT 988B with CAT approved weights, mast, etc.)

#### **ORIGINAL**

### **EQUIPMENT DATA & SPECIFICATIONS**

#### Length: 35.25 ft (10.74 m) Overall ..... 6.25 ft (1.91 m) Between Steering Pivot and Rear Axle. 20 Ft Tophandler..... 19.8 ft (6.04 m) 34.9 ft (10.64 m) 35 Ft Tophandler..... 40 Ft Tophandler..... 39.7 ft (12.10 m) 20 Ft Tophandler (from Container Lock to Container Lock)..... 19.2 ft (5.85 m) 35 Ft Tophandler (from Container Lock to Container Lock)..... 34.25 ft (10.44 m) 39.3 ft (11.98 m) 40 Ft Tophandler (from Container Lock to Container Lock)..... Width: 11.66 ft (3.51 m) Overall ..... 9 ft (2.74 m) Mast Width ..... 20 Ft Tophandler.... 8.3 ft (2.53 m) 8.3 ft (2.53 m) 35 Ft Tophandler..... 8.3 ft (2.53 m) 40 Ft Tophandler. Wheelbase.... 12.5 ft (3.81 m) Height: 13.25 ft (4.04 m) Top of ROPS..... 13.9 ft (4.24 m) Top of Mast (Lowered). Top of Mast (Fully Extended) ..... 19.1 ft (5.82 m) Weight: 105,120 lb (47,768 kg) Shipping Weight (70% Fuel, Without Tophandler) ..... Operational Weight (Without Tophandler)..... 103,230 lb (46,824 kg) Operational Weight (with 20 Ft Tophandler)..... 107,030 lb (48,558 kg) 112,350 lb (50,961 kg) Operational Weight (with 35 Ft Tophandler)..... 113,160 lb (51,329 kg) Operational Weight (with 40 Ft Tophandler)..... 20 Ft Tophandler. 3,800 lb (1,724 kg) 9,120 lb (4,137 kg) 40 Ft Tophandler..... 9,930 lb (4,504 kg) Maximum Speed: 14.5 mph (23.3 kph) With Rated Load (Forward) ..... With Rated Load (Reverse) 14.9 mph (24 kph) Without Rated Load (Forward). 18.5 mph (29.8 kph) Without Rated Load (Reverse) ..... 19.4 mph (31.2 kph) 5 mph (8 kph) for 10 miles (16 km) max 15% at 2 mph (3.2 kph) Maximum Grade\* ..... Maximum Fording Depth\*.... 60 in. (150 cm) Maximum Side Slope\*.... 15 degrees Maximum Breakover Angle\*.... 148 degrees Maximum Approach Angle\* ..... 25 degrees Maximum Departure Angle\*..... 20 degrees Maximum Ground Clearance\*..... 16 in. (40 cm) Curb Circle Clearance 70 ft (21 m) Tilt Cycling Time (Each Direction)\*\*..... 9 seconds Lifting Capacity ..... 50,000 lb (22,679 kg)

\*Tophandler with container raised 1 ft (30 cm) full back tilt.

\*\*Tophandler with container raised 1 ft (30 cm).

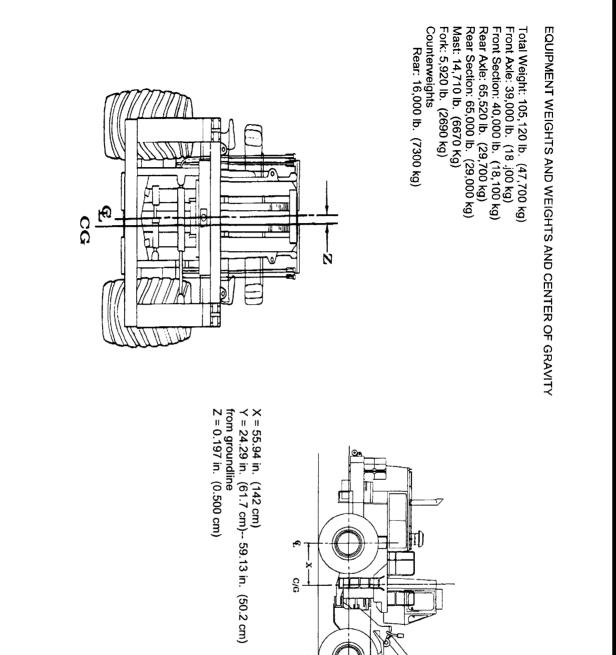
#### EQUIPMENT DATA - CONTINUED

Engine:	
Manufacturer	Caterpillar Inc.
Туре	-
	turbo diesel
Model	3408T
Flywheel Power at 2,100 RPM	393 HP (293 kW)
Torque at 1,300 RPM	
Engine RPM (Low Idle)	
Engine RPM (High Idle)	
Injector Timing	
Bore	
Stroke	
Displacement	
Compression Ratio	
Firing Order	1-8-4-3-6-5-7-2
Fuel	Diesel no.2
Weight	3,200 lb (1,451 kg)
Transmission and Powertrain:	,
Manufacturer.	Caterpillar Inc.
Туре	
Transmission Reduction Ratio in First	
Transmission Reduction Ratio in First (Reverse)	4.9043
Transmission Reduction Ratio in Second	3.1429
Transmission Reduction Ratio in Second (Reverse)	2.7500
Transmission Reduction Ratio in Third	1.7751
Transmission Reduction Ratio in Third (Reverse)	1.5532
Transmission Reduction Ratio in Fourth	1.0000
Transmission Reduction Ratio in Fourth (Reverse)	0.8750
Weight	1,756 lb (796 kg)
Transfer Case:	1,700 ID (790 Kg)
Transfer Case Reduction Ratio (Input)	1.0256
Transfer Case Reduction Ratio (Output)	1.1795
Weight	1,080 lb (490 kg)
Final Drive Reduction Ratio	
Bevel Gear Reduction Ratio	5.0526
Axles:	3.7500
Axle Oscillation (Front)	Fixed
Axle Oscillation (Rear)	±13 degrees
Brakes.	All wheel disc
Туре	Full hydraulic oil bath disc
Braking Surface	$2,300 \text{ sq in. x 4 } (14,839 \text{ cm}^2)$
Pump Type	,
Output	Gear 28 gpm at 1 000 pai
-	28 gpm at 1,000 psi (1.8 L/sec at 7,000 kPa)
Relief Valve Setting	(1.8  L/sec at 7,000 kPa) 2,200 psi (15,168 kPa)
Weight	70 lb (32 kg) non-adjustable
	(or kg) non-aujustable

#### EQUIPMENT DATA - CONTINUED

Tires:	
Туре	Radial
Size	35/65-R33
Front Inflation	70 psi (482 kPa)
Rear Inflation	40 psi (276 kPa)
Weight (Tire and Rim)	3,000 lb (1,361 kg)
Steering:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Туре	Full budgesslip senter a sint
Туре	Full hydraulic, center point
	frame articulation
Steering Angle (Each Direction).	27 degrees
Pump Type	Gear
Output	101 gpm at 1,000 psi
	(6.4 L/sec at 7,000 kPa)
Relief Valve Setting	2,500 psi (17,236 kPa)
Operating Pressure (Max)	2,500 psi (17,236 kPa)
Weight	70 lb (32 kg)
Capacities:	
Fuel Tank	165 gal. (625 L)
Radiator	28 gal. (106 L)
Engine Crankcase	11 gal. (41.6 L)
Hydraulic System	78 gal. (295.3 L)
Transmission and Differential	24 gal. (91 L)
Electrical System:	8 ()
Batteries	Lead-acid
Quantity	
Туре	2 8D
Voltage (Each Battery)	8D 12V
Voltage (System).	24V
Alternator	Integral regulator
Туре	Solid state
Amperage	50A
Hydraulic System:	504
Туре	
Pump:	Closed with vacuum relief
Type/Output	
Type Output	Gear, single stage/71 gpm
Relief Value Setting	(4.5 L/sec)
Relief Valve Setting Operating Pressure (Max)	2,500 psi (17,236 kPa)
Weight	2,500 psi (17,236 kPa)
Weight Cylinders:	110 lb (50 kg)
-	
Lift (Bore x Stroke)	10 x 69 in. (25.4 x 175 cm)
Tilt (Bore x Stroke)	7 x 19.25 in. (17.8 x 49 cm)
Side Shift (Bore x Stroke)	6 x 24 in. (15.2 x 61 cm)
Side Tilt (Bore x Stroke)	6 x 6.5 in. (15.2 x 16.5 cm)

Specifications are Subject to Change Without Notice.



d

i L

£

-00

NOTE Weight is with 70% fuel in tanks, mast vertical, with fork, no tophandler



## **POWERMAX EQUIPMENT**

2204 Commerce Street P.O. Box 575 Fairview, OK 73737 USA

580.227.3908 (PHONE) 580.227.3928 (FAX)

www.powermaxeq.com